

(a) contacting a compound with a library of scaffold-based proteins under conditions that allow binding to form a compound-scaffold-based protein complex, wherein the scaffold is derived from the tenth module of human fibronectin type III (¹⁰Fn3), said library comprising scaffold-based proteins having at least three randomized loops and being characterized by their ability to bind to a compound that is not bound by said human ¹⁰Fn3; and

(b) obtaining, from said complex, a scaffold-based protein that binds to said compound and that has at least one amino acid alteration in each of three loops relative to the human ¹⁰Fn3 sequence.

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41. (Twice Amended) A method for obtaining a compound that binds to a scaffold-based protein, said method comprising:

(a) contacting a scaffold-based protein with a candidate compound under conditions that allow binding to form a compound-scaffold-based protein complex, wherein the scaffold is derived from the tenth module of human fibronectin type III (¹⁰Fn3), said scaffold-based protein having at least one amino acid alteration in each of three loops relative to the human ¹⁰Fn3 sequence, said scaffold-based protein being characterized by its ability to bind to a compound that is not bound by said human ¹⁰Fn3; and

(b) obtaining, from said complex, a compound that binds to said scaffold-based

B1
Conclude
protein.

B2
59. (Twice Amended) A method for detecting a compound in a sample, said method comprising:

(a) contacting said sample with a scaffold-based protein which binds to said compound under conditions that allow binding to form a compound-scaffold-based protein complex, wherein the scaffold is derived from the tenth module of human fibronectin type III ($^{10}\text{Fn3}$), said scaffold-based protein having at least one amino acid alteration in each of three loops relative to the human $^{10}\text{Fn3}$ sequence, said scaffold-based protein being characterized by its ability to bind to a compound that is not bound by said human $^{10}\text{Fn3}$; and

(b) detecting said complex, thereby detecting said compound in said sample.